

Demand Side Worksheet

EGR Name: 8

Occupation Name: Nurses Aides, Orderlies, and Attendants

Occupation SOC: 31-1012

1. Estimated Job vacancies, end of 2005

| | |
|-----------------|----|
| Lower estimate | 36 |
| Middle estimate | 45 |
| Upper estimate | 54 |

2. Projected number of job openings annually due to growth and net replacements:

| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|---|------|------|------|------|------|------|------|
| A. Lower projection: | | | | | | | |
| Total, all industries in EGR | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| Nursing and Residential Care Facilities | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| Hospitals | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| | | | | | | | |
| | | | | | | | |
| B. Middle projection: | | | | | | | |
| Total, all industries in EGR | 57 | 57 | 57 | 57 | 57 | 57 | 57 |
| Nursing and Residential Care Facilities | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Hospitals | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| | | | | | | | |
| | | | | | | | |
| C. Upper projection: | | | | | | | |
| Total, all industries in EGR | 68 | 68 | 68 | 68 | 68 | 68 | 68 |
| Nursing and Residential Care Facilities | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| Hospitals | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| | | | | | | | |
| | | | | | | | |

Notes:

This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty.

The meanings of the words "Lower," "Middle," and "Upper" are as follows:

A. **"Lower"** means that your EGR thinks the probability is no more than 25% that the true value lies below it.

B. **"Middle"** means that your EGR thinks the probability is about equal that the true value lies either below it or above it.

C. **"Upper"** means that your EGR thinks the probability is no more than 25% that the true value lies above it.

| Supply Side Worksheet #1 ("Production") | | | | | | | |
|---|---|------|------|------|------|------|------|
| EGR Name: | 8 | | | | | | |
| Occupation Name: | Nurses Aides, Orderlies, and Attendants | | | | | | |
| Occupation SOC: | 31-1012 | | | | | | |
| Projected "production" of new entrants into this occupation, by year | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| a. Graduates/completers of education and training programs in this EGR: | | | | | | | |
| Ivy Tech Community College | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| | | | | | | | |
| etc. (add as necessary) | | | | | | | |
| b. Other sources of entrants (other than in-migration) | | | | | | | |
| Source #1 | | | | | | | |
| Source #2 | | | | | | | |
| etc. (add as necessary) | | | | | | | |
| c. Total new supply | 50 | 50 | 50 | 50 | 50 | 50 | 50 |

| Supply Side Worksheet #2 ("Migration") | | | | | | | |
|---|---|------|------|------|------|------|------|
| EGR Name: | 8 | | | | | | |
| Occupation Name: | Nurses Aides, Orderlies, and Attendants | | | | | | |
| Occupation SOC: | 31-1012 | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| 1. Projected IN-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. From outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. From other occupations | | | | | | | |
| 2. Projected OUT-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. To places outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. Into other occupations | | | | | | | |
| 3. Net IN-Migration | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Worksheet for Calculating Shortages or Surpluses of One Occupation | | | | | | | | |
|---|--|------|------|------|------|------|------|------|
| EGR Name: | 8 | | | | | | | |
| Occupation Name: | Nurses Aides, Orderlies and Attendants | | | | | | | |
| Occupation SOC: | 31-1012 | | | | | | | |
| A. Lower projection: | | | | | | | | |
| Total, all industries in EGR | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| Carryover from last year (+/-) | | 36 | 32 | 28 | 24 | 20 | 16 | 12 |
| New demand during year | | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| New production during year | | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net change during year | | -4 | -4 | -4 | -4 | -4 | -4 | -4 |
| Carryover to next year (+/-) | 36 | 32 | 28 | 24 | 20 | 16 | 12 | 8 |
| B. Middle projection: | | | | | | | | |
| Total, all industries in EGR | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| Carryover from last year (+/-) | | 45 | 52 | 59 | 66 | 73 | 80 | 87 |
| New demand during year | | 57 | 57 | 57 | 57 | 57 | 57 | 57 |
| New production during year | | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net change during year | | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Carryover to next year (+/-) | 45 | 52 | 59 | 66 | 73 | 80 | 87 | 94 |
| C. Upper projection: | | | | | | | | |
| Total, all industries in EGR | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| Carryover from last year (+/-) | | 54 | 72 | 90 | 108 | 126 | 144 | 162 |
| New demand during year | | 68 | 68 | 68 | 68 | 68 | 68 | 68 |
| New production during year | | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net change during year | | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Carryover to next year (+/-) | 54 | 72 | 90 | 108 | 126 | 144 | 162 | 180 |
| Notes: | | | | | | | | |
| (1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite. | | | | | | | | |
| (2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows: | | | | | | | | |
| A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it. | | | | | | | | |
| B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it. | | | | | | | | |
| C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it. | | | | | | | | |

| Demand Side Worksheet | | | | | | | |
|---|--|------|------|------|------|------|------|
| EGR Name: | 8 | | | | | | |
| Occupation Name: | Electrical and Electronics Engineering Technicians | | | | | | |
| Occupation SOC: | 17-3023 | | | | | | |
| 1. Estimated Job vacancies, end of 2005 | | | | | | | |
| Lower estimate | 5 | | | | | | |
| Middle estimate | 10 | | | | | | |
| Upper estimate | 19 | | | | | | |
| 2. Projected number of job openings annually due to growth and net replacements: | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| A. Lower projection: | | | | | | | |
| Total, all industries in EGR | 65 | 65 | 65 | 65 | 65 | 65 | 65 |
| PS & T (Primarily Crane related) | 65 | 65 | 65 | 65 | 65 | 65 | 65 |
| | | | | | | | |
| | | | | | | | |
| B. Middle projection: | | | | | | | |
| Total, all industries in EGR | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| PS & T (Primarily Crane related) | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| | | | | | | | |
| | | | | | | | |
| C. Upper projection: | | | | | | | |
| Total, all industries in EGR | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| PS & T (Primarily Crane related) | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| | | | | | | | |
| | | | | | | | |
| Notes: | | | | | | | |
| This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows: | | | | | | | |
| A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it. | | | | | | | |
| B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it. | | | | | | | |
| C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it. | | | | | | | |

| Supply Side Worksheet #1 ("Production") | | | | | | | |
|---|--|------|------|------|------|------|------|
| EGR Name: | 8 | | | | | | |
| Occupation Name: | Electrical and Electronics Engineering Technicians | | | | | | |
| Occupation SOC: | 17-3023 | | | | | | |
| Projected "production" of new entrants into this occupation, by year | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| a. Graduates/completers of education and training programs in this EGR: | | | | | | | |
| Vincennes University | 6 | 7 | 10 | 9 | 10 | 10 | 10 |
| Ivy Tech Comm College | 11 | 14 | 14 | 15 | 15 | 14 | 14 |
| etc. (add as necessary) | | | | | | | |
| b. Other sources of entrants (other than in-migration) | | | | | | | |
| Source #1 | | | | | | | |
| Source #2 | | | | | | | |
| etc. (add as necessary) | | | | | | | |
| c. Total new supply | 17 | 21 | 24 | 24 | 25 | 24 | 24 |

| Supply Side Worksheet #2 ("Migration") | | | | | | | |
|---|--|------|------|------|------|------|------|
| EGR Name: | 8 | | | | | | |
| Occupation Name: | Electrical and Electronics Engineering Technicians | | | | | | |
| Occupation SOC: | 17-3023 | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| 1. Projected IN-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. From outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. From other occupations | | | | | | | |
| 2. Projected OUT-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. To places outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. Into other occupations | | | | | | | |
| 3. Net IN-Migration | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Worksheet for Calculating Shortages or Surpluses of One Occupation | | | | | | | | | | |
|---|--|------|------|------|------|------|------|------|--|--|
| EGR Name: | 8 | | | | | | | | | |
| Occupation Name: | Electrical and Electronics Engineering Technicians | | | | | | | | | |
| Occupation SOC: | 17-3023 | | | | | | | | | |
| A. Lower projection: | | | | | | | | | | |
| Total, all industries in EGR | | | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | | |
| Carryover from last year (+/-) | | 5 | 53 | 97 | 138 | 179 | 219 | 260 | | |
| New demand during year | | 65 | 65 | 65 | 65 | 65 | 65 | 65 | | |
| New production during year | | 17 | 21 | 24 | 24 | 25 | 24 | 24 | | |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Net change during year | | 48 | 44 | 41 | 41 | 40 | 41 | 41 | | |
| Carryover to next year (+/-) | 5 | 53 | 97 | 138 | 179 | 219 | 260 | 301 | | |
| B. Middle projection: | | | | | | | | | | |
| Total, all industries in EGR | | | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | | |
| Carryover from last year (+/-) | | 10 | 74 | 134 | 191 | 248 | 304 | 361 | | |
| New demand during year | | 81 | 81 | 81 | 81 | 81 | 81 | 81 | | |
| New production during year | | 17 | 21 | 24 | 24 | 25 | 24 | 24 | | |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Net change during year | | 64 | 60 | 57 | 57 | 56 | 57 | 57 | | |
| Carryover to next year (+/-) | 10 | 74 | 134 | 191 | 248 | 304 | 361 | 418 | | |
| C. Upper projection: | | | | | | | | | | |
| Total, all industries in EGR | | | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | | |
| Carryover from last year (+/-) | | 19 | 99 | 175 | 248 | 321 | 393 | 466 | | |
| New demand during year | | 97 | 97 | 97 | 97 | 97 | 97 | 97 | | |
| New production during year | | 17 | 21 | 24 | 24 | 25 | 24 | 24 | | |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Net change during year | | 80 | 76 | 73 | 73 | 72 | 73 | 73 | | |
| Carryover to next year (+/-) | 19 | 99 | 175 | 248 | 321 | 393 | 466 | 539 | | |
| Notes: | | | | | | | | | | |
| (1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite. | | | | | | | | | | |
| (2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows: | | | | | | | | | | |
| A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it. | | | | | | | | | | |
| B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it. | | | | | | | | | | |
| C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it. | | | | | | | | | | |

| Demand Side Worksheet | | | | | | | |
|---|------|------|------|------|------|------|------|
| EGR Name: 8 | | | | | | | |
| Occupation Name: Licensed Practical Nurses | | | | | | | |
| Occupation SOC: 29-2061 | | | | | | | |
| 1. Estimated Job vacancies, end of 2005 | | | | | | | |
| Lower estimate | 10 | | | | | | |
| Middle estimate | 19 | | | | | | |
| Upper estimate | 38 | | | | | | |
| 2. Projected number of job openings annually due to growth and net replacements: | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| A. Lower projection: | | | | | | | |
| Total, all industries in EGR | 59 | 59 | 59 | 59 | 59 | 59 | 59 |
| Nursing and Residential Care Facilities | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| Ambulatory Health Care Services | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Hospitals | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| B. Middle projection: | | | | | | | |
| Total, all industries in EGR | 74 | 74 | 74 | 74 | 74 | 74 | 74 |
| Nursing and Residential Care Facilities | 43 | 43 | 43 | 43 | 43 | 43 | 43 |
| Ambulatory Health Care Services | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Hospitals | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| C. Upper projection: | | | | | | | |
| Total, all industries in EGR | 89 | 89 | 89 | 89 | 89 | 89 | 89 |
| Nursing and Residential Care Facilities | 52 | 52 | 52 | 52 | 52 | 52 | 52 |
| Ambulatory Health Care Services | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Hospitals | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Notes: | | | | | | | |
| This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows: | | | | | | | |
| A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it. | | | | | | | |
| B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it. | | | | | | | |
| C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it. | | | | | | | |

EGR 8 estimates
 LPNs : 23% work in Ambulatory HC
 40 % in Nursing and Res Care

Hospitals are not in EGR 8 estimates so
 the data used was from BLS Industri Occupation Employment Matrix
 which says 22.24% work in hospitals

Total LPNs in 2003 = 835

openings LED quarterly turnover rate in Health Care is 8.1 % per qtr Q2 2003 -
 835 x 8.1% = 68. 68/3 = 23 per month turnover rate is for Bton MSA

upper and lower are 20% increase and decrease

| | | | | | | | |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| EGR Name: 8 | | | | | | | |
| Occupation Name: Licensed Practical Nurses | | | | | | | |
| Occupation SOC: 29-2061 | | | | | | | |
| Projected "production" of new entrants into this occupation, by year | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| a. Graduates/completers of education and training programs in this EGR: | | | | | | | |
| Vincennes University | 8 | 11 | 11 | 11 | 11 | 11 | 11 |
| Ivy Tech Community College | 65 | 65 | 57 | 32 | 32 | 32 | 32 |
| etc. (add as necessary) | | | | | | | |
| b. Other sources of entrants (other than in-migration) | | | | | | | |
| Source #1 | | | | | | | |
| Source #2 | | | | | | | |
| etc. (add as necessary) | | | | | | | |
| c. Total new supply | 73 | 76 | 68 | 43 | 43 | 43 | 43 |

education school completers x the % that each school es
work in EGR 8 after graduation

| | | | | | | | |
|--|----------|----------|----------|----------|----------|----------|----------|
| Supply Side Worksheet #2 ("Migration") | | | | | | | |
| EGR Name: 8 | | | | | | | |
| Occupation Name: Licensed Practical Nurses | | | | | | | |
| Occupation SOC: 29-2061 | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| 1. Projected IN-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. From outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. From other occupations | | | | | | | |
| 2. Projected OUT-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. To places outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. Into other occupations | | | | | | | |
| 3. Net IN-Migration | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Note: 2.b. "Into other occupations" is the projected # to leave the occupation for retirement

replaced retirement estimate with # not employed in nurs
18.3% according to natl survey 1666 x 18.3% = 305 / 7 y
The National Sample Survey of Registered Nurses 2000
US Dept HHS, Health Resources and Svc Admin

2000 census migration data shows almost no net migrat
EGR 8. Indiana only shows 3.9 net migration

retirement is based on 14.6 % of health care workforce in
55 years or older and is likely to retire during next 7 yrs
 $835 \times 14.6\% = 122 / 7\text{yrs} = 17 \text{ per year}$

Worksheet for Calculating Shortages or Surpluses of One Occupation

EGR Name: 8

Occupation Name: Licensed Practical Nurses

Occupation SOC: 29-2061

A. Lower projection:

Total, all industries in EGR

| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|--------------------------------|------|------|------|------|------|------|------|------|
| Carryover from last year (+/-) | | 10 | -4 | -21 | -30 | -14 | 2 | 18 |
| New demand during year | | 59 | 59 | 59 | 59 | 59 | 59 | 59 |
| New production during year | | 73 | 76 | 68 | 43 | 43 | 43 | 43 |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net change during year | | -14 | -17 | -9 | 16 | 16 | 16 | 16 |
| Carryover to next year (+/-) | 10 | -4 | -21 | -30 | -14 | 2 | 18 | 34 |

B. Middle projection:

Total, all industries in EGR

| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|--------------------------------|------|------|------|------|------|------|------|------|
| Carryover from last year (+/-) | | 19 | 20 | 18 | 24 | 55 | 86 | 117 |
| New demand during year | | 74 | 74 | 74 | 74 | 74 | 74 | 74 |
| New production during year | | 73 | 76 | 68 | 43 | 43 | 43 | 43 |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net change during year | | 1 | -2 | 6 | 31 | 31 | 31 | 31 |
| Carryover to next year (+/-) | 19 | 20 | 18 | 24 | 55 | 86 | 117 | 148 |

C. Upper projection:

Total, all industries in EGR

| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|--------------------------------|------|------|------|------|------|------|------|------|
| Carryover from last year (+/-) | | 38 | 54 | 67 | 88 | 134 | 180 | 226 |
| New demand during year | | 89 | 89 | 89 | 89 | 89 | 89 | 89 |
| New production during year | | 73 | 76 | 68 | 43 | 43 | 43 | 43 |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net change during year | | 16 | 13 | 21 | 46 | 46 | 46 | 46 |
| Carryover to next year (+/-) | 38 | 54 | 67 | 88 | 134 | 180 | 226 | 272 |

Notes:

(1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite.

(2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:

- A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it.
- B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.
- C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.

| Demand Side Worksheet | | | | | | | |
|---|------|--|------|------|------|------|------|
| EGR Name: | | 8 | | | | | |
| Occupation Name: | | Drafting, Engineering and Mapping Technicians, all other | | | | | |
| Occupation SOC: | | 17-3099 (OES only) | | | | | |
| 1. Estimated Job vacancies, end of 2005 | | | | | | | |
| Lower estimate | | 3 | | | | | |
| Middle estimate | | 6 | | | | | |
| Upper estimate | | 9 | | | | | |
| 2. Projected number of job openings annually due to growth and net replacements: | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| A. Lower projection: | | | | | | | |
| Total, all industries in EGR | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Public Admin (Crane) | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| | | | | | | | |
| B. Middle projection: | | | | | | | |
| Total, all industries in EGR | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Public Admin (Crane) | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | | | | | | | |
| C. Upper projection: | | | | | | | |
| Total, all industries in EGR | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Public Admin (Crane) | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| | | | | | | | |
| | | | | | | | |
| Notes: | | | | | | | |
| This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows: | | | | | | | |
| A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it. | | | | | | | |
| B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it. | | | | | | | |
| C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it. | | | | | | | |

| Supply Side Worksheet #1 ("Production") | | | | | | | |
|---|--|------|------|------|------|------|------|
| EGR Name: | 8 | | | | | | |
| Occupation Name: | Drafting, Engineering and Mapping Technicians, all other | | | | | | |
| Occupation SOC: | 17-3099 (OES only) | | | | | | |
| Projected "production" of new entrants into this occupation, by year | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| a. Graduates/completers of education and training programs in this EGR: | | | | | | | |
| Vincennes Univeristy | 5 | 6 | 6 | 7 | 8 | 9 | 9 |
| Ivy Tech Community College | 11 | 14 | 14 | 15 | 15 | 14 | 14 |
| etc. (add as necessary) | | | | | | | |
| b. Other sources of entrants (other than in-migration) | | | | | | | |
| Source #1 | | | | | | | |
| Source #2 | | | | | | | |
| etc. (add as necessary) | | | | | | | |
| c. Total new supply | 16 | 20 | 20 | 22 | 23 | 23 | 23 |

| Supply Side Worksheet #2 ("Migration") | | | | | | | |
|---|--|------|------|------|------|------|------|
| EGR Name: | 8 | | | | | | |
| Occupation Name: | Drafting, Engineering and Mapping Technicians, all other | | | | | | |
| Occupation SOC: | 17-3099 (OES only) | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| 1. Projected IN-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. From outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. From other occupations | | | | | | | |
| 2. Projected OUT-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. To places outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. Into other occupations | | | | | | | |
| 3. Net IN-Migration | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Worksheet for Calculating Shortages or Surpluses of One Occupation | | | | | | | | | |
|---|--|------|------|------|------|------|------|------|-----|
| EGR Name: | 8 | | | | | | | | |
| Occupation Name: | Drafting, Engineering and Mapping Technicians, all other | | | | | | | | |
| Occupation SOC: | 17-3099 (OES Only) | | | | | | | | |
| A. Lower projection: | | | | | | | | | |
| Total, all industries in EGR | | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | |
| Carryover from last year (+/-) | | 3 | -5 | -17 | -29 | -43 | -58 | -73 | -88 |
| New demand during year | | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| New production during year | | 16 | 20 | 20 | 22 | 23 | 23 | 23 | 23 |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net change during year | | -8 | -12 | -12 | -14 | -15 | -15 | -15 | -15 |
| Carryover to next year (+/-) | 3 | -5 | -17 | -29 | -43 | -58 | -73 | -88 | |
| B. Middle projection: | | | | | | | | | |
| Total, all industries in EGR | | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | |
| Carryover from last year (+/-) | | 6 | 0 | -10 | -20 | -32 | -45 | -58 | -71 |
| New demand during year | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| New production during year | | 16 | 20 | 20 | 22 | 23 | 23 | 23 | 23 |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net change during year | | -6 | -10 | -10 | -12 | -13 | -13 | -13 | -13 |
| Carryover to next year (+/-) | 6 | 0 | -10 | -20 | -32 | -45 | -58 | -71 | |
| C. Upper projection: | | | | | | | | | |
| Total, all industries in EGR | | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | |
| Carryover from last year (+/-) | | 9 | 5 | -3 | -11 | -21 | -32 | -43 | -54 |
| New demand during year | | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| New production during year | | 16 | 20 | 20 | 22 | 23 | 23 | 23 | 23 |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net change during year | | -4 | -8 | -8 | -10 | -11 | -11 | -11 | -11 |
| Carryover to next year (+/-) | 9 | 5 | -3 | -11 | -21 | -32 | -43 | -54 | |
| Notes: | | | | | | | | | |
| (1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite. | | | | | | | | | |
| (2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows: | | | | | | | | | |
| A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it. | | | | | | | | | |
| B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it. | | | | | | | | | |
| C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it. | | | | | | | | | |

| Demand Side Worksheet | | | | | | | |
|---|------|------|------|------|------|------|------|
| EGR Name: 8 | | | | | | | |
| Occupation Name: Registered Nurses | | | | | | | |
| Occupation SOC: 29-1111 | | | | | | | |
| 1. Estimated Job vacancies, end of 2005 | | | | | | | |
| Lower estimate | 25 | | | | | | |
| Middle estimate | 50 | | | | | | |
| Upper estimate | 75 | | | | | | |
| Notes: | | | | | | | |
| 2. Projected number of job openings annually due to growth and net replacements: | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| A. Lower projection: | | | | | | | |
| Total, all industries in EGR | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Hospitals | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| Ambulatory Health Care Svc | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| Nursing and Residential Care | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| B. Middle projection: | | | | | | | |
| Total, all industries in EGR | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| Hospitals | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| Ambulatory Health Care Svc | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| Nursing and Residential Care | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| C. Upper projection: | | | | | | | |
| Total, all industries in EGR | 180 | 180 | 180 | 180 | 180 | 180 | 180 |
| Hospitals | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Ambulatory Health Care Svc | 51 | 51 | 51 | 51 | 51 | 51 | 51 |
| Nursing and Residential Care | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Notes: | | | | | | | |
| This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows: | | | | | | | |
| A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it. | | | | | | | |
| B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it. | | | | | | | |
| C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it. | | | | | | | |

According to egr 8 estimates 28% of RNs work in Ambulatory HC svc
8% work in Nursing and Res Care. Hospitals is not in estimates data

egr 8 estimates 63.1 % in hosp, 24.2 % in ambulatory hc, 9.6% nurse and res care

openings were distributed to key industries in the % above

2005 openings estimated by looking at LED data Q2 2003 to Q1 2004
qtrly avg turnover is 8.1% 1,666 RNs x 8.1 % = 135 per quarter / 3 = 45 per month
turnover rate is for Health care industry n Bton MSA

upper and lower are 20% increase and decrease

| Supply Side Worksheet #1 ("Production") | | | | | | | |
|---|------|-------------------|------|------|------|------|------|
| EGR Name: | | 8 | | | | | |
| Occupation Name: | | Registered Nurses | | | | | |
| Occupation SOC: | | 29-1111 | | | | | |
| | | | | | | | |
| Projected "production" of new entrants into this occupation, by year | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| | | | | | | | |
| a. Graduates/completers of education and training programs in this EGR: | | | | | | | |
| Indiana University | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| Vincennes University | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Ivy Tech Comm Coll | 42 | 47 | 47 | 92 | 92 | 92 | 92 |
| etc. (add as necessary) | | | | | | | |
| b. Other sources of entrants (other than in-migration) | | | | | | | |
| Source #1 | | | | | | | |
| Source #2 | | | | | | | |
| etc. (add as necessary) | | | | | | | |
| c. Total new supply | 77 | 82 | 82 | 127 | 127 | 127 | 127 |
| | | | | | | | |

school completers x their projected rate that will work in f

| Supply Side Worksheet #2 ("Migration") | | | | | | | |
|--|----------|-------------------|----------|----------|----------|----------|----------|
| EGR Name: | | 8 | | | | | |
| Occupation Name: | | Registered Nurses | | | | | |
| Occupation SOC: | | 29-1111 | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| 1. Projected IN-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. From outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. From other occupations | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | 0 |
| 2. Projected OUT-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. To places outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. Into other occupations* | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3. Net IN-Migration | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Note: 2.b. "Into other occupation is the projected # to leave the occupation for retirement

replaced retirement estimate with # not employed in nur:
 18.3% according to natl survey 1666 x 18.3% = 305 / 7)
 The National Sample Survey of Registered Nurses 2000
 US Dept HHS, Health Resources and Svc Admin

2000 census migration data shows almost no migration

used 14.6 % retirement rate based on
 14.6 % of health care workers in IN is at least 55
 Based on LED age distribution by industry Q 1 2004
 1666 x 14.6% / 7yrs = 35 per year

instead of retirement could use turnover rate

Worksheet for Calculating Shortages or Surpluses of One Occupation

EGR Name: 8
 Occupation Name: Registered Nurses
 Occupation SOC: 29-1111

A. Lower projection:

| Total, all industries in EGR | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|-----|
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | |
| Carryover from last year (+/-) | | 25 | 68 | 106 | 144 | 137 | 130 | 123 | 123 |
| New demand during year | | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| New production during year | | 77 | 82 | 82 | 127 | 127 | 127 | 127 | 127 |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net change during year | | 43 | 38 | 38 | -7 | -7 | -7 | -7 | -7 |
| Carryover to next year (+/-) | 25 | 68 | 106 | 144 | 137 | 130 | 123 | 116 | |

B. Middle projection:

| Total, all industries in EGR | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|-----|
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | |
| Carryover from last year (+/-) | | 50 | 123 | 191 | 259 | 282 | 305 | 328 | 328 |
| New demand during year | | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| New production during year | | 77 | 82 | 82 | 127 | 127 | 127 | 127 | 127 |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net change during year | | 73 | 68 | 68 | 23 | 23 | 23 | 23 | 23 |
| Carryover to next year (+/-) | 50 | 123 | 191 | 259 | 282 | 305 | 328 | 351 | |

C. Upper projection:

| Total, all industries in EGR | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|-----|
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | |
| Carryover from last year (+/-) | | 75 | 178 | 276 | 374 | 427 | 480 | 533 | 533 |
| New demand during year | | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 |
| New production during year | | 77 | 82 | 82 | 127 | 127 | 127 | 127 | 127 |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Net change during year | | 103 | 98 | 98 | 53 | 53 | 53 | 53 | 53 |
| Carryover to next year (+/-) | 75 | 178 | 276 | 374 | 427 | 480 | 533 | 586 | |

Notes:

- (1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite.
- (2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:
- A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it.
 - B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.
 - C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.

| Demand Side Worksheet | | | | | | | |
|---|------|------|------|------|------|------|------|
| EGR Name: 8 | | | | | | | |
| Occupation Name: Respiratory Therapist | | | | | | | |
| Occupation SOC: 29-1126 | | | | | | | |
| 1. Estimated Job vacancies, end of 2005 | | | | | | | |
| Lower estimate | 10 | | | | | | |
| Middle estimate | 13 | | | | | | |
| Upper estimate | 16 | | | | | | |
| 2. Projected number of job openings annually due to growth and net replacements: | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| A. Lower projection: | | | | | | | |
| Total, all industries in EGR | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Hospitals | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| B. Middle projection: | | | | | | | |
| Total, all industries in EGR | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Hospitals | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| C. Upper projection: | | | | | | | |
| Total, all industries in EGR | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Hospitals | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Notes: | | | | | | | |
| This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows: | | | | | | | |
| A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it. | | | | | | | |
| B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it. | | | | | | | |
| C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it. | | | | | | | |

2005 vacancies is based on LED data Q2 2003 - Q1 2004 that says Health Care in Bton MSA is 8.1% per quarter. 158 x 8.1% = 13. Did

by three because employers say it takes well over a month to fill vaci

upper and lower are + and - 20%

middle based on 130 projected openings

| Supply Side Worksheet #1 ("Production") | | | | | | | |
|--|-----------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| EGR Name: | 8 | | | | | | |
| Occupation Name: | Respiratory Therapist | | | | | | |
| Occupation SOC: | 29-1126 | | | | | | |
| | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| | | | | | | | |
| a. Graduates/completers of education and training programs in this EGR: | | | | | | | |
| Ivy Tech Community College | 0 | 13 | 13 | 13 | 13 | 13 | 13 |
| | | | | | | | |
| etc. (add as necessary) | | | | | | | |
| b. Other sources of entrants (other than in-migration) | | | | | | | |
| Source #1 | | | | | | | |
| Source #2 | | | | | | | |
| etc. (add as necessary) | | | | | | | |
| c. Total new supply | 0 | 13 | 13 | 13 | 13 | 13 | 13 |

| Supply Side Worksheet #2 ("Migration") | | | | | | | |
|--|-----------------------|----------|----------|----------|----------|----------|----------|
| EGR Name: | 8 | | | | | | |
| Occupation Name: | Respiratory Therapist | | | | | | |
| Occupation SOC: | 29-1126 | | | | | | |
| | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| | | | | | | | |
| 1. Projected IN-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. From outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. From other occupations | | | | | | | |
| 2. Projected OUT-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. To places outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. Into other occupations | | | | | | | |
| 0 | | | | | | | |
| 3. Net IN-Migration | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Note: 2.b. "Into other occupations" is the projected # to leave the occupation for retirement

based on info from ITCC x 90% work in EGR

program is not yet operational but has been a

retirements are
based on 14.6% of indiana health care workfc
55 yrs + according to LED data for Q1 2004

158 X 14.6% = 23/7= 3 PER YR

retirements

Worksheet for Calculating Shortages or Surpluses of One Occupation

EGR Name: 8
 Occupation Name: Respiratory Therapist
 Occupation SOC: 29-1126

A. Lower projection:

| Total, all industries in EGR | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|--|
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | |
| Carryover from last year (+/-) | | 10 | 20 | 17 | 14 | 11 | 8 | 5 | |
| New demand during year | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | |
| New production during year | | 0 | 13 | 13 | 13 | 13 | 13 | 13 | |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Net change during year | | 10 | -3 | -3 | -3 | -3 | -3 | -3 | |
| Carryover to next year (+/-) | 10 | 20 | 17 | 14 | 11 | 8 | 5 | 2 | |

B. Middle projection:

| Total, all industries in EGR | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|--|
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | |
| Carryover from last year (+/-) | | 13 | 26 | 26 | 26 | 26 | 26 | 26 | |
| New demand during year | | 13 | 13 | 13 | 13 | 13 | 13 | 13 | |
| New production during year | | 0 | 13 | 13 | 13 | 13 | 13 | 13 | |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Net change during year | | 13 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Carryover to next year (+/-) | 13 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | |

C. Upper projection:

| Total, all industries in EGR | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|--|
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | |
| Carryover from last year (+/-) | | 16 | 32 | 35 | 38 | 41 | 44 | 47 | |
| New demand during year | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | |
| New production during year | | 0 | 13 | 13 | 13 | 13 | 13 | 13 | |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Net change during year | | 16 | 3 | 3 | 3 | 3 | 3 | 3 | |
| Carryover to next year (+/-) | 16 | 32 | 35 | 38 | 41 | 44 | 47 | 50 | |

Notes:

(1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite.

(2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:

- A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it.
- B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.
- C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.

Demand Side Worksheet

EGR Name: 8

Occupation Name: First Line Supervisors/Managers of Production and Operating Workers

Occupation SOC: 51-1011

1. Estimated Job vacancies, end of 2005

| | |
|-----------------|----|
| Lower estimate | 14 |
| Middle estimate | 18 |
| Upper estimate | 22 |

2. Projected number of job openings annually due to growth and net replacements:

| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
|-------------------------------------|------|------|------|------|------|------|------|
| A. Lower projection: | | | | | | | |
| Total, all industries in EGR | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Transportation Equipment | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Misc. Manuf. (incl medical devices) | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Food Manufacturing | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Plastics and Rubber Products | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fabricated Metal | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Furniture and Related Products | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| B. Middle projection: | | | | | | | |
| Total, all industries in EGR | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| Transportation Equipment | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Misc. Manuf. (incl medical devices) | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Food Manufacturing | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Plastics and Rubber Products | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fabricated Metal | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Furniture and Related Products | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| C. Upper projection: | | | | | | | |
| Total, all industries in EGR | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Transportation Equipment | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Misc. Manuf. (incl medical devices) | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Food Manufacturing | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Plastics and Rubber Products | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Fabricated Metal | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Furniture and Related Products | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

Notes:

This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:

A. **"Lower"** means that your EGR thinks the probability is no more than 25% that the true value lies below it.

B. **"Middle"** means that your EGR thinks the probability is about equal that the true value lies either below it or above it.

C. **"Upper"** means that your EGR thinks the probability is no more than 25% that the true value lies above it.

| Supply Side Worksheet #1 ("Production") | | | | | | | |
|--|------|------|------|------|------|------|------|
| EGR Name: 8 | | | | | | | |
| Occupation Name: First Line Supervisors/Managers of Production and Operating Workers | | | | | | | |
| Occupation SOC: 51-1011 | | | | | | | |
| Projected "production" of new entrants into this occupation, by year | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| a. Graduates/completers of education and training programs in this EGR: | | | | | | | |
| Vincennes University | | | | | | | |
| Ivy Tech Community College | | | | | | | |
| Indiana University | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| etc. (add as necessary) | | | | | | | |
| b. Other sources of entrants (other than in-migration) | | | | | | | |
| Source #1 | | | | | | | |
| Source #2 | | | | | | | |
| etc. (add as necessary) | | | | | | | |
| c. Total new supply | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| | | | | | | | |
| | | | | | | | |
| Supply Side Worksheet #2 ("Migration") | | | | | | | |
| EGR Name: 8 | | | | | | | |
| Occupation Name: First Line Supervisors/Managers of Production and Operating Workers | | | | | | | |
| Occupation SOC: 51-1011 | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| 1. Projected IN-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. From outside this EGR | | | | | | | |
| b. From other occupations | | | | | | | |
| 2. Projected OUT-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. To places outside this EGR | | | | | | | |
| b. Into other occupations | | | | | | | |
| 3. Net IN-Migration | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Need an idea of how many production wkrs can become :

| Worksheet for Calculating Shortages or Surpluses of One Occupation | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|--|
| Calculating Shortages or Surpluses of Q8 | | | | | | | | | |
| Occupation Name: First Line Supervisors/Managers of Production and Operating Workers | | | | | | | | | |
| Occupation SOC: 51-1011 | | | | | | | | | |
| A. Lower projection: | | | | | | | | | |
| Total, all industries in EGR | | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | |
| Carryover from last year (+/-) | | 14 | 10 | 6 | 2 | -2 | -6 | -10 | |
| New demand during year | | 17 | 17 | 17 | 17 | 17 | 17 | 17 | |
| New production during year | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Net change during year | | -4 | -4 | -4 | -4 | -4 | -4 | -4 | |
| Carryover to next year (+/-) | 14 | 10 | 6 | 2 | -2 | -6 | -10 | -14 | |
| B. Middle projection: | | | | | | | | | |
| Total, all industries in EGR | | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | |
| Carryover from last year (+/-) | | 18 | 18 | 18 | 18 | 18 | 18 | 18 | |
| New demand during year | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | |
| New production during year | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Net change during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Carryover to next year (+/-) | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | |
| C. Upper projection: | | | | | | | | | |
| Total, all industries in EGR | | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | |
| Carryover from last year (+/-) | | 22 | 26 | 30 | 34 | 38 | 42 | 46 | |
| New demand during year | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | |
| New production during year | | 21 | 21 | 21 | 21 | 21 | 21 | 21 | |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Net change during year | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | |
| Carryover to next year (+/-) | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | |
| Notes: | | | | | | | | | |
| (1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite. | | | | | | | | | |
| (2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows: | | | | | | | | | |
| A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it. | | | | | | | | | |
| B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it. | | | | | | | | | |
| C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it. | | | | | | | | | |

| Demand Side Worksheet | | | | | | | |
|---|------|------|------|------|------|------|------|
| EGR Name: 8 | | | | | | | |
| Occupation Name: Team Assemblers | | | | | | | |
| Occupation SOC: 51-2092 | | | | | | | |
| 1. Estimated Job vacancies, end of 2005 | | | | | | | |
| Lower estimate | 26 | | | | | | |
| Middle estimate | 50 | | | | | | |
| Upper estimate | 106 | | | | | | |
| 2. Projected number of job openings annually due to growth and net replacements: | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| A. Lower projection: | | | | | | | |
| Total, all industries in EGR | 74 | 74 | 74 | 74 | 74 | 74 | 74 |
| Misc. Manuf. (incl. medical device) | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Transportation Equipment | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| Furniture and Related Products | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| B. Middle projection: | | | | | | | |
| Total, all industries in EGR | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Misc. Manuf. (incl. medical device) | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| Transportation Equipment | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Furniture and Related Products | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| C. Upper projection: | | | | | | | |
| Total, all industries in EGR | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| Misc. Manuf. (incl. medical device) | 74 | 74 | 74 | 74 | 74 | 74 | 74 |
| Transportation Equipment | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| Furniture and Related Products | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Notes: | | | | | | | |
| This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows: | | | | | | | |
| A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it. | | | | | | | |
| B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it. | | | | | | | |
| C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it. | | | | | | | |

Openings based on 3,253 assemblers x 6.2% avg qtr
 turnover rate LED Bton MSA
 $3253 \times 6.2\% = 202/3 = 67$ per month
 upper and lower are + and - 20%

| Supply Side Worksheet #1 ("Production") | | | | | | | |
|---|-----------------|------|------|------|------|------|------|
| EGR Name: | 8 | | | | | | |
| Occupation Name: | Team Assemblers | | | | | | |
| Occupation SOC: | 51-2092 | | | | | | |
| Projected "production" of new entrants into this occupation, by year | | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| a. Graduates/completers of education and training programs in this EGR: | | | | | | | |
| Institution #1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | |
| etc. (add as necessary) | | | | | | | |
| b. Other sources of entrants (other than in-migration) | | | | | | | |
| Source #1 | | | | | | | |
| Source #2 | | | | | | | |
| etc. (add as necessary) | | | | | | | |
| c. Total new supply | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

currently 3334 people registered in CS3 for as
in EGR 8 (some might be double counted?
How many are qualified? Need CS3 hire rates

might want to include non-college bound grad

| Supply Side Worksheet #2 ("Migration") | | | | | | | |
|---|-----------------|------|------|------|------|------|------|
| EGR Name: | 8 | | | | | | |
| Occupation Name: | Team Assemblers | | | | | | |
| Occupation SOC: | 51-2092 | | | | | | |
| Year | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| 1. Projected IN-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. From outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. From other occupations | | | | | | | |
| 2. Projected OUT-migration of workers in this occupation to this EGR, by year | | | | | | | |
| a. To places outside this EGR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| b. Into other occupations | | | | | | | |
| 3. Net IN-Migration | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

cov employment IBRC Q1 2004
retirements based on 3253 x 15.3% age 55+
 $3253 \times 15.3\% = 498/7 \text{ yrs} = 71 \text{ per year}$

| Worksheet for Calculating Shortages or Surpluses of One Occupation | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|--|--|
| EGR Name: 8 | | | | | | | | | | |
| Occupation Name: Team Assemblers | | | | | | | | | | |
| Occupation SOC: 51-2092 | | | | | | | | | | |
| A. Lower projection: | | | | | | | | | | |
| Total, all industries in EGR | | | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | | |
| Carryover from last year (+/-) | | 25 | 99 | 173 | 247 | 321 | 395 | 469 | | |
| New demand during year | | 74 | 74 | 74 | 74 | 74 | 74 | 74 | | |
| New production during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Net change during year | | 74 | 74 | 74 | 74 | 74 | 74 | 74 | | |
| Carryover to next year (+/-) | 25 | 99 | 173 | 247 | 321 | 395 | 469 | 543 | | |
| B. Middle projection: | | | | | | | | | | |
| Total, all industries in EGR | | | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | | |
| Carryover from last year (+/-) | | 50 | 142 | 234 | 326 | 418 | 510 | 602 | | |
| New demand during year | | 92 | 92 | 92 | 92 | 92 | 92 | 92 | | |
| New production during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Net change during year | | 92 | 92 | 92 | 92 | 92 | 92 | 92 | | |
| Carryover to next year (+/-) | 50 | 142 | 234 | 326 | 418 | 510 | 602 | 694 | | |
| C. Upper projection: | | | | | | | | | | |
| Total, all industries in EGR | | | | | | | | | | |
| Year | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | | |
| Carryover from last year (+/-) | | 100 | 210 | 320 | 430 | 540 | 650 | 760 | | |
| New demand during year | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | | |
| New production during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Net migration during year | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Net change during year | | 110 | 110 | 110 | 110 | 110 | 110 | 110 | | |
| Carryover to next year (+/-) | 100 | 210 | 320 | 430 | 540 | 650 | 760 | 870 | | |
| Notes: | | | | | | | | | | |
| (1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite. | | | | | | | | | | |
| (2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows: | | | | | | | | | | |
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| C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it. | | | | | | | | | | |